Page 1 of 1 Form PTO-1449 (modified) Atty. Docket No. Serial No. BAYM:002US 09/941,165 List of Patents and Publications for Applicant's Applicant Graham B. I. Scott et al. INFORMATION DISCLOSURE STATEMENT Filing Date: Group: (Use several sheets if necessary) August 28, 2001 2877 **U.S. Patent Documents Foreign Patent Documents** Other Art See Page 1 See Page 1 See Page 2 **U.S. Patent Documents** Exam. Ref. **Document Date** Name Class Filing Date of Sub Init. Des. Number Class App. A20 5,196,709 3-23-93 Bemdt et al. 250 458.1 5-3-91 A21 6,211,955 B1 4-3-01 Basiji et al. 356 326 3-29-00 **Foreign Patent Documents** Exam. Ref. **Document** Date Country Class Sub **Translation** Init. Des. Number Class Yes/No Other Art (Including Author, Title, Date Pertinent Pages, Etc.) Exam. Ref. Citation Init. Des.

25282923.1

EXAMINER: magda Cus

DATE CONSIDERED:

ber 8, 20

EXAMINER: INITIAL IF REFIRENCE CONSIDERED, METHER OR NOT CITATION IS IN CONFORMANCE WITH MP \$1609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No. BAYM:002US	Serial No. 09/941,165
ELect of Patents and Publications for A	Applicant's	Applicant Graham B. I. Scott et al.	
NFORMATION DISCLOSURE ST (Use several sheets if necessar		Filing Date: August 28, 2001	Group: 2877
(Use several sheets if necessar	Foreign 1	Patent Documents	Other Art See Page 2

U.S. Patent Documents

See Page 1

Exam.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
init	A1	4,582,788	4/15/86	Erlich	435	6	1/7/83
\sim		4,656,127	4/7/87	Mundy	435	6	4/23/84
	A2	4,683,194	7/28/87	Saiki et al.	435	6	3/28/85
	A3	4,683,202	7/28/87	Mullis	435	91	10/25/85
	A4		3/22/94	Kricka et al.	435	291	5/1/92
	A5	5,296,375	4/19/94	Wilding et al.	435	291	5/1/92
	A6	5,304,487	7/21/98	Gorfinkel et al.	356	318	11/21/95
	A7	5,784,157	12/8/98	Bajaj	435	6	8/6/93
	A8	5,846,710	1/5/99	Lipshutz et al.	435	286.5	1/19/96
	A9	5,856,174		Goelet et al.	435	5	3/5/91
	A10	5,888,819	3/30/99	Oh Oh	204	601	3/7/97
	A11	5,904,824	5/18/99	Tsunashima et al.	359	618	2/21/97
	A12	5,991,082	11/23/99		433	5	10/11/91
	A13	6,004,744	12/21/99	Goelet et al.	435	5	12/2/93
	A14	6,013,431	1/11/00	Soderlund et al.	 	326	7/31/98
	A15	6,038,023	3/14/00	Carlson et al.	356		
	A16	6,139,800	10/31/00	Chandler	422	82.08	6/22/98
	A17	6,153,379	11/28/00	Caskey et al.	435	6	6/22/94
	A18	6,215,598 B1	4/10/01	Hwu	359	641	10/5/98
	A19	6,226,126 B1	5/1/01	Conemac	359	618	4/19/00

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

25097222.1

See Page 1

EXAMINER:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MP EP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Form PTO-1449 (modified)		Serial No. 09/941,165
List of Patents and Publications for		Applicant Graham B. I. Scott et a	zl.
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Filing Date: August 28, 2001	Group: 2877
U.S. Patent Documents	U.S. Patent Documents Foreign 1		Other Art See Page 2

Exam. Init.	Ref. Des.	Citation
	Cl	Anazawa et al., "A capillary array gel electrophoresis system using multiple laser focusing for DNA sequencing," Anal. Chem., 68:2699-2704, 1996.
	C2	Barany, "Genetic disease detection and DNA amplification using cloned thermostable ligase, Proc. Natl. Acad. Sci. USA, 88:189-193, 1991.
	C3	Brenner et al., "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays." Nat Biotechnol., 18:630-634, 2000.
	C4	Brenner et al., "In vitro cloning of complex mixtures of DNA on microbeads: physical separation of differentially expressed cDNAs," PNAS, 97(4):1665-1670, 2000.
	C5	Cohen et al., "Separation and analysis of DNA sequence reaction products by capillary gel electrophoresis, V. Chromatogr., 516:49-60, 1990.
	C6	Crabtree et al., "Construction and evaluation of a capillary array DNA sequencer based on a micromachined sheath-flow cuvette," Electrophoresis, 21:1329-1335, 2000.
	C7	Deeb et al., "A Pro12Ala substitution in PPARY2 associated with decreased receptor activity, lower body mass index and improved insulin sensitivity," Nature Genet., 20:284-287, 1998.
	C8	Drossman et al., "High-speed separations of DNA sequencing reactions by capillary electrophoresis." Anal. Chem., 62:900-983, 1990.
	C9	Effenhauser, et al "High-speed separation of antisense oligonucleotides on a micromachined capillary electrophoresis device," Anal. Chem., 66:2949-2953, 1994.
	C10	Effenhauser, et al. "Glass chips for high-speed capillary electrophoresis separations with submicrometer plate heights," Anal. Chem., 65:2637-2642, 1993.
	C11	Harrison et al., "Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip," Science, 261:895-897, 1993.
	C12	Huang et al., "Bias in quantitative capillary zone electrophoresis caused by electrokinetic sample injection." Anal. Chem., 60:375-377, 1988
	C13	Huang et al., "Capillary array electrophoresis using laser-excited confocal fluorescence detection: an approach to high-speed, high-throughput DNA sequencing," Anal Chem., 64:96
	C14	Ju et al., "Fluorescence energy transfer dye-labeled primers for DNA sequencing and analyst Proc. Natl. Acad. Sci. USA., 92:4347-4351, 1995.

EXAMINER: Made Considered, Whether or not citation is in conformance with MPEP609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form P	TO-1449 (modified)		Atty. Docket No. BAYM:002US	Serial No. 09/941,165
$\langle 0 E \rangle$	atents and Publications for A		Applicant Graham B. I. Scott et	al.
/ line . G	ORMATION DISCLOSURE STA	y)	Filing Date: August 28, 2001	Group: 2877
PADEMARK CONT.	S. Patent Documents See Page 1		Patent Documents Lee Page 1	Other Art See Page 2

Exam. Init.	Ref. Des.	Citation 1 " Netwo 361:
C15		Kambara and Takahashi, "Multiple-sheathflow capillary array DNA analyser," Nature, 361: 565-566, 1993.
	C16	Karger et al., "Multiwavelength fluorescence detection for DNA sequencing using capillary electrophoresis," Nucleic Acids Res., 19:4955-4962, 1991.
	C17	Kheterpal et al., "DNA sequencing using a four-color confocal fluorescence capillary array scanner," Electrophoresis, 17:1852-1859, 1996.
 -	C18	Komher and Livak "Mutation detection using nucleotide analogs that alter electrophoretic mobility, Nucleic Acids Res., 17(19):7779-7784, 1989.
	C19	Kuppuswamy et al., "Single nucleotide primer extension to detect genetic diseases: Experimental application to hemophilia B (factor IX) and cystic fibrosis genes," Proc. Natl. Acad. Sci. U.S.A., 883143-1147, 1991.
	C20	Kurg et al., "Arrayed primer extension: solid-phase four-color DNA resequencing and mutation detection technology." Gene Testing, 4(1):1-7, 2000.
	C21	Landegren et al., "A ligase-mediated gene detection technique," Science, 241:1077-1080, 1988.
	C22	Lee and Anvret. "Identification of the most common mutation within the porphobilinogen deaminase gene in Swedish patients with acute intermittent porphyria," Proc Natl Acad Sci U S 4 88:10912-10915, 1991.
	C23	Lieberwirth et al., "Multiplex dye DNA sequencing in capillary gel electrophoresis by diode laser-based time-resolved fluorescence detection," Anal Chem., 70:4771-4779, 1998.
C24		Livak and Hainer. "A microtiter plate assay for determining apolipoprotein E genotype and discovery of a rare allele," Hum Mutat., 3:379-385, 1994.
	C25	Lu and Yeung. "Optimization of excitation and detection geometry for multiplexed capillary array electrophoresis of DNA fragments," Appl. Spectrosc., 49(5): 605-609, 1995.
	C26	Luckey et al., "High speed DNA sequencing by capillary electrophoresis," Nucleic Acids Res.,
	C27	Luryi, CRISP Abstract: Grant Number 5R01HG01487-05. 4 Color automated DNA sequencing machine with asynchronous network operation, 4/1996—6/2002.
	C28	Madabhushi, "Separation of 4-color DNA sequencing extension products in noncovalently coated capillaries using low viscosity polymer solutions," <i>Electrophoresis</i> 19:224-230, 1998.

EXAMINER: Magda Crus

DATE CONSIDERED: September 8, 2004

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH

CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

_
Printer.
Market St.

Form	n PTO-1449 (modified)		Atty. Docket No. BAYM:002US	Serial No. 09/941,165
010	of Patents and Publications for		Applicant Graham B. I. Scott et a	L
JUN 1 4 2002 \$	NFORMATION DISCLOSURE ST		Filing Date: August 28, 2001	Group: 2877
PADEMARK	U.S. Patent Documents See Page 1	Foreign l	Patent Documents See Page 1	Other Art See Page 2

Exam. Init.	Ref. Des.	Citation
	C29	Manz, et al., "Planar chips technology for miniaturization and integration of separation techniques into monitoring systems," J. Chromatogr., 593:253-258, 1992.
	C30	Meaburn, "Signal to noise ratios-the principal criteria of merit," In: Detection and Spectrometry of Faint Light. Reidel, Dordrecht, Holland, 246-266, 1976.
	C31	Metzker et al., "Electrophoretically uniform fluorescent dyes for automated DNA sequencing," Science, 271:1420-1422, 1996.
	C32	Metzker et al., "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates" Nucleic Acids Res., 22:4259-4267, 1994.
	C33	Nickerson et al., "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay." Proc Natl Acad Sci USA., 87:8923-8927, 1990.
	C34	Nikiforov et al., "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms." Nucleic Acids Res., 22(20):4167-4175, 1994.
	C35	Nyren et al., "Solid phase DNA minisequencing by an enzymatic luminometric inorganic pyrophosphate detection assay," Anal. Biochem., 208:171-175, 1993.
-	C36	Prezant and Fischel-Ghodsian. "Trapped-oligonucleotide nucleotide incorporation (TON1) assay, a simple method for screening point mutations," Hum Mutat., 1:159-164, 1992.
	C37	Prober et al., "A system for rapid DNA sequencing with fluorescent chain-terminating dideoxynucleotides." Science, 238:336-341, 1987.
	C38	Quesada and Zhang "Multiple capillary DNA sequencer that uses fiber-optic illumination and detection" Electrophoresis, 17:1841-1851, 1996.
	C39	Quesada et al., "Multi-capillary optical waveguides for DNA sequencing," Electrophoresis,
	C40	Ronaghi et al., "A sequencing method based on real-time pyrophosphate, Science, 281:363, 365, 1998.
	C41	Rosenblum et al., "New dye-labeled terminators for improved DNA sequencing patterns," Nucleic Acids Res., 25:4500-4504, 1997.
	C42	Sambrook et al., "Molecular Cloning," A Laboratory Manual, 2d Ed., Cold Spring Harbox Laboratory Press, New York, 13.7-13.9:1989.

25097222.1

EXAMINER: Magda Crus	DATE CONSIDERED: September 8, 2004
EXAMINER: INITIAL IF REFIRENCE CONSIDERED, WHETHER OR NOT CIT CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COR	ATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH
CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE CON	TOP THIS FORM WITH

Form PTO-1449 (modified)		Atty. Docket No. BAYM:002US	Serial No. 09/941,165	
List of Patents and Publications for	Applicant's	Applicant Graham B. I. Scott et al.		
INFORMATION DISCLOSURE S' (Use several sheets if necessa		Filing Date: August 28, 2001	Group: 2877	
U.S. Patent Documents See Page 1	Foreign	Patent Documents See Page 1	Other Art See Page 2	

Exam.	Ref.	Citation
Init.	Des.	Shibata et al., "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer," Genome Res. 10:1757-1771, 2000.
	C44	Shumaker et al., "Mutation detection by solid phase primer extension," Hum Mutat., 7.340-334,
	C45	Smith et al., "Fluorescence detection in automated DNA sequence analysis," Nature,
	C46	Sokolov, "Primer extension technique for the detection of single nucleotide in genomic DNA,
	C47	Sweedler et al., "Fluorescence detection in capillary zone electrophoresis using a charge-
	C48	Swerdlow and Gesteland, "Capillary gel electrophoresis for rapid, high resolution DIVA cappaging," Nucleic Acids Res., 18(6): 1415-1419, 1990.
	C49	Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing. Sequencing Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing." Laser-induced Swerdlow et al., "Capillary gel electrophoresis for DNA sequencing.
	C50	Swerdlow et al., "Three DNA sequencing methods using capillary gel electrophoresis and last induced fluorescence." Anal Chem., 63:2835-2841, 1991.
	C51	Syvanen et al., "A primer-guided nucleotide incorporation assay in the genotyping of
	C52	Takahashi et al., "Multiple sheath-flow gel capillary-array electrophoresis for multicolor
	C53	Taylor and Yeung, "Multiplexed fluorescence detector for capillary electrophoresis using axia
	C54	Tsuda et al., "Rectangular capillaries for capillary zone eletrophoresis," Anat. Chem., 52.2145
	C55	Ueno and Yeung, "Simultaneous monitoring of DNA fragments separated by electrophotesis
	C56	Wei and Hemmings, "The NOTCH4 locus is associated with susceptibility to schizophrenia," Nature Genet., 25:376-377, 2000.

25097222.1

EXAMINER: Maa

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

COD
HOWIND

Form PTO-1449 (modified)		Atty. Docket No. BAYM:002US	Serial No. 09/941,165	
	t of Patents and Publications for Applicant's			
INFORMATION DISCLOSURE STATEMENT Filing Date:	Group: 2877			
U.S. Patent Documents	Foreign	Patent Documents See Page 1	Other Art See Page 2	
BADEMARY See Page 1				

Exam.	Ref.	Citation
Init.	Des.	LENIA Gramont separations using microfabricated
	C57	Woolley and Mathies, "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," Proc Natl Acad Sci USA, 91:11348-11352 1994.
		out the control of th
	C58	Yeo et al. "A frameshift mutation in MC4R associated with dominantly inherited human obesity," Nature Genet., 20:111-112, 1998.
		obesity, frame in capillary gels on a modified
	C59	Zagursky and McCormick, "DNA sequencing separations in capillary gels on a modified commercial DNA sequencing instrument," Biotechniques, 9(1): 74-79, 1990.
		commission for small-scale DNA sequencing and
	C60	Zhang et al., "A multiple-capillary electrophoresis system for small-scale DNA sequencing and analysis," Nucleic Acids Res., 27(24):e36, i-vii, 1999.

25097222.1

EXAMINER:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.